

Transfer A4
b
UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FEB 29 1960

S

PLANS-Inyo
Timber Management
Owens River Working Circle

May 1, 1952

STREAMLINED MANAGEMENT PLAN

FOR

OWENS RIVER WORKING CIRCLE

INYO NATIONAL FOREST

FEB 29 1960

TRANSFERRED



S

PLANS-Inyo
Timber Management
Owens River Working Circle

May 1, 1952

STREAMLINED MANAGEMENT PLAN

FOR

OWENS RIVER WORKING CIRCLE

INYO NATIONAL FOREST

Prepared: May, 1952

By R. S. Smith

Approved May 19 1952

By Eldon E. Ball
Forest Supervisor

APPROVED JUN 4 1952

By A. S. Brewster
Acting Regional Forester

APPROVED June 28 1952,
as a modification of the management plan approved March 29, 1923.

Edward P. Cliff
Acting Chief, Forest Service

Copy sent Chief 6-4-52
" " Inyo 7-9-52

J.P.

156

WRH

FOREST SERVICE, SAN FRANCISCO 11, CALIFORNIA

SUPERVISOR, INYO

C
O
P
Y

REGIONAL FORESTER, BY

MARCH 27, 1956

S-PLANS-Inyo-(Timber Management-Owens River Working Circle)

Reference D-INSPECTION-GII-(Inyo-DeNio, R.M., Radel, J.T., 1955) of March 20, 1956, FR-10, Recommendation No. 1.

Completion requirement for revision of the Owens River Working Circle Management Plan is changed from January 1958 to January 1961.

New aerial photography scheduled for Owens River Working Circle for 1956 and subsequent management plan cruise by Forest should facilitate completion of a regular timber management plan per 7-FSM, Paragraph 103.7 before this date.

K. W. KENNEDY

cc D Files

FOREWARD

A Management Plan for the Mono Lake-Owens River Working Circle was prepared in 1923 by John S. Barnes, Forest Assistant, and was approved by Acting Forester E. E. Carter March 29, 1923. This plan established an allowable annual cut of 7 MM for a cutting cycle of 70 years and was predicated on the removal of 80% of the merchantable volume during that cutting cycle.

This streamlined plan revises the boundaries of the Mono Lake-Owens River Working Circle, by adding approximately 356,000 acres, by bringing the volume estimates up to date on the basis of more recent cruise data, and by modifying the silvicultural practice to provide for a larger reserve stand.

1. Resource Data: As of January 1, 1951.

Ownership	: Gross	: Merchantable Area (Acres	: Merchantable	:
	: Area	: :	: Volume	:
	: (Acres)	: Uncut	: Cut-over	: MBM
*Area "A"	: 43,340	: 35,000	: 8,340	: 43,340
National Forest	:	:	:	: 280,263
Private	: 9,660	: 1,356	: 8,304	: 9,660
	:	:	:	: 7,804
<u>Sub-total</u>	<u>: 53,000</u>	<u>: 36,356</u>	<u>: 16,644</u>	<u>: 53,000</u>
				: 288,067
*Area "B"	:	:	:	:
National Forest	: 361,300	: 36,080	: 17,000	: 53,080
Private	: 18,340	: 3,920	: None	: 3,920
	:	:	:	: 16,464
<u>Sub-total</u>	<u>: 379,640</u>	<u>: 40,000</u>	<u>: 17,000</u>	<u>: 57,000</u>
<u>Totals</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
National Forest	: 403,640	: 71,080	: 25,340	: 96,420
Private	: 29,000	: 5,276	: 8,304	: 13,580
	:	:	:	: 24,268
<u>Total</u>	<u>: 432,640</u>	<u>: 76,356</u>	<u>: 33,644</u>	<u>: 110,000</u>
				: 522,748

*Area "A" previously referred to as the "allocated area" is comprised of stands which, because of density and species composition, are considered as operable under average conditions.

*Area "B" previously referred to as the "unallocated area" includes stands which, because of density and species composition, are usually operable only when market conditions are favorable.

2. Transportation System

Timber access road construction can be accomplished at relatively low cost on the gentle sandy slopes of the merchantable timbered areas. In general, primary logging roads required to log the allocated stands are already in existence. All logging road development should be correlated with forest protection and

other forest use. A copy of the "Timber Management Access Road Report" form for this working circle, is included in the appendix.

3. Silviculture

The entire Working Circle is in Eastside Sierra sub-region. The following timber types occur: Jeffrey pine, red fir, lodgepole and mixed conifer types. Site in the Jeffrey pine type varies from low Site V (65' at 300 years) in the Round Mountain Unit to Site III (125' at 300 years) in Dry Creek of the Mono-Owens Unit. Individual trees reach 20" d.b.h. in 65 years in the site III areas.

The guiding major objective of cutting this area will be to harvest the timber that is dead, defective or immediately susceptible to loss and to leave cutover areas in the best possible timber producing condition. The primary timber product of this area is sawlog production. Regional marking instructions will be followed.

4. Annual Cut

The allowable annual cut for the first cutting cycle is established in excess of net growth. This enables the completion of the first cutting cycle in a short period of time on a light marking basis and permits the removal and utilization of poor risk trees that would die and could not be utilized if a longer cutting cycle were required. After the first cutting cycle the cut will not exceed net growth.

For Area "A" the estimate of allowable cut for the first cutting cycle is based on $1\frac{1}{2}$ times the growth expected on the reserve stand. See appendix table IV for basis of growth estimates.

Allowable annual cut = $1\frac{1}{2} \times 4,117$ M board feet (annual growth).

Allowable cut = 6,172 M feet.

A reliable basis of estimating growth for Area "B" is lacking. Moreover, due to their light stand and species composition these stands will probably be operated intermittently when market conditions are favorable. It is estimated that approximately 50% of the volume in these stands will be removed over the 20 year cutting cycle which began in 1948. ✓

On this basis:

$$\text{Allowable Cut Area "B" } = \frac{50\% \times \text{Volume 1948}}{20 \text{ years}}$$

$$\text{"} \quad \text{"} \quad \text{"} \quad \text{"} \quad = \frac{50\% \times 235 \text{ MM}}{20}$$

$$\text{"} \quad \text{"} \quad \text{"} \quad \text{"} \quad = 5.9 \text{ MM}$$

Since logging in Area "B" may be intermittent dependent upon market conditions it is desirable to permit taking the entire cut of the circle from this area when it is possible to do so. Therefore, the allowable annual cut for the Owens River Working Circle is established at 12 MM feet of which not more than 6 MM will come from Area A. Any reduction in cutting of national forest timber below 6 MM feet in Area "A" may be accumulated as credit for cutting in Area "A" at more than 6 MM annually prior to December 31, 1957. In the use of this credit the overage allowable annual cut for the Working Circle will be 12 MM, and in no year will the cut exceed 13 MM. X

5. Sale Policy

It shall be the policy of the Inyo Forest to make sales and exchanges of timber insofar as possible from areas where greatest losses in timber value are likely to occur. These include areas of heavy insect infestation, disease infection, windthrow and fire damage.

- a. Timing Offerings - before each sale expires, another proposed sale area will be examined and appraised.
- b. Size of Offerings - will conform to Regional policy. Short-term sales will eliminate necessity of reappraisal and will permit greater flexibility in locating sales.
- c. Selection of Offerings - The Forest has the responsibility of designating the specific areas to be offered for sale, as shown in the cutting budget of the management plan.

The Inyo Lumber Company has the privilege of selecting the time for cutting the approximate 18 MM of selected timber in the April 14, 1945 exchange, prior to termination date of December 31, 1957.

- d. Auction or Sealed Bids - Bidding will be in accordance with Regional policy, National Forest Manual, Volume 3, Section B, paragraph 204.11, Region 5 Supplement.

MAY 1-1952

6. Cutting Budget - January 1952 to December 31, 1954 - 3-year period.

In January of each year: (1) Post accomplishments; (2) Review; (3) Extend for one year.

TIMBER				ROADS					
Map No.	Location	Area	Cut Vol	Responsible	Road	Miles			
		Acres	MMBM	F.S.	Oper.	Const.	Better	Maint.	
1 (1952)	Mono-Owens Unit	A 950	3						
		B 2090	4						
		3040	7	x	-	4.0	-	4.0	
2 (1952-53)	Same	A 3160	8	See revision, page 5a, 2/15/54					
		B 3260	6						
		6420	14	x	-	11.0	-	21.0	
3 (1953-54)	Same	A 4360	13						
		B None	-						
		4360	13	x	-	11.1	-	11.1	
4 (1953-54)	Same	A 550	1						
		B 460	1						
		1010	2	x	-	2.0	-	10.0	
Sub-total :		A 9020	25						
		B 5810	11						
		14830	36	x		28.1	-	-	

7. Revision Date - This plan should be revised January 1, 1958.

Owens River Working Circle

Inyo National Forest

Five-year Cutting Budget and Sale Program C.Y. 1955-1956-1957-1958-1959 Inclusive.
 (Show all sales under contract and sales proposed for advertising by year.)

Name of Sale or Proposed Sale & Date of Advertisement	: Total Volume in Sale MBM	: Estimated Cut for Each C.Y.: 1955-1956-1957-1958-1959	Access Road Construction (on System & M-4 Roads) Each Year							
			: MBM	: Acres	: Road Number	: Miles	: Cost	: Road Number	: Miles	: Cost
Last Chance - Inyo 4/4/58	-13	1956	6	4,900				0106	5.0	7500
Sentinel Mdw 6/1/58	2		2	1300					2.1	1,500
Alpers 7/1/58	12		1	4500	0204	7.5	5,300	0204	7.5	26,750
Deadman 8/1/58	7	1957	7	3000				0205	5.0	10,000
Alpers			3							
Sawmill Mdw, 7/1/58	2		2	1220	0101 Ext.	2.5	200	0101 Ext.	2.5	3,800
Alpers		1958	5							2,000
Bald Mt. Spring 2/1/58	3		3	750	0105	2.5	800	0105	2.5	5,000
Xmas Tree 2/1/58	1		1	80						
McGee Mdw 7/1/58	2		2	900	0102 Spur	2.0	200	0102 Spur	2.0	14
Lookout Mt. 2/1/59	8	1959	8	3800						1,600
Wet Mdw 2/1/59	3		3	1800				0207A	2.5	2,900
Antelope Mt. 2/1/60	12	1960	12	11,840	0305A	10.0	3,000	0305A	10.0	15,000
					0305B	5.0	1,250	0305B	5.0	6,250
					0305C	3.6	1,000	0305C	3.6	4,750
					0207A	6.1	1,000	0207A	6.1	6,000
								0207A	2.5	2,900

Approved _____

Revised: _____

254-R5 Revised 12-27-54
Supersedes Revision 12-22-53By: B.S. Sweat (Date) 7/23

R.O. Copy

FEB 15 1954

OWENS RIVER

WORKING CIRCLE

INYO

NATIONAL FOREST

FIVE-YEAR CUTTING BUDGET AND SALE PROGRAM (C. Y.

INCLUSIVE)

(Show Sale and Planned Cut By Calendar Year)

6. CUTTING BUDGET (Revision of 2/15/54)

Revised 2/15/54 (Date)

By B. S. Swall

Title District Ranger

254-R5-12/22/53

MA

APPENDIX I - OWENS RIVER WORKING CIRCLE
VOLUME CUT BY INYO LUMBER COMPANY BY CALENDAR YEARS

*(Figures obtained from Moffett)

Volume Cut-MBM, Log Scale

<u>Calendar Year</u>	<u>U.S.</u>	<u>*Private</u>	<u>Total</u>
1944	8,412	Unknown	-
1945	12,800	0	12,800
1946	11,732	236	11,968
1947	4,541	7,504	12,045
3 year subtotal	29,073	7,740	36,813
1948	4,251	9,522	13,773
1949	6,767	4,647	11,414
1950	7,362	5,277	12,639
3 year subtotal	18,380	19,446	37,826
6 year Total	47,453	27,186	74,639
1951	11,407	25	11,432
1952	8,937	4,685	13,622
1953	15,240	none	15,240
1954	10,359		
1955	6,922		
1956			
1957			
10 year total 1948-57			114,933

APPENDIX IIOWENS RIVER WORKING CIRCLE - INYO NATIONAL FORESTCOMPLIANCE WITH ALLOWABLE CUT, BEGINNING JANUARY 1948

Cut from national forest Area "A" prior to December 31, 1957 - 60,000

M Ft.

Cut from Working Circle including private prior to December 31, 1957 -
120,000 M Ft.

C.Y.	Volume Cut - MBM			Private	Total (Approx.)
	Area "A"	Area "A"	Area "B"		
	Cut	Credit (I)	Cut		
1948	None	6,000	4,251	9,522	13,773
1949	None	12,000	6,767	4,647	11,414
1950	1,597	16,403	5,765	5,277	12,639
Sub-					
<u>total</u>	<u>1,597</u>	<u>16,403</u>	<u>16,783</u>	<u>19,446</u>	<u>37,826</u>
1951	6,708	15,695	4,699	25	11,432
1952	6937	14,758	2,000	4,685	13,622
1953	12,690	8,068	2,550	none	15,240
1954		cut 10 227			
1955					
1956					
1957					
10 year:			35,849	24,736	
Total : 60,000(2):	-	-	60,000	-	120,000
					78,120

(I) Accumulated credit on Area "A" as provided for under 4. Annual Cut.

(2) Includes approximately 18 MM Selected Timber (Inyo Lumber Co. 4/14/45).

Hartley Springs 1953 2,673 M

cut on exchange

C.Y.	
1950	2,672 M
1953	12,528 M
1954	

APPENDIX III - OWENS RIVER WORKING CIRCLE

1948 Total Stand of Virgin Government Area "A" Timber by Townships in MBM.
Within Mono-Owens Unit - Exclusive of Recreation Areas and Olcese Estate.

Townships	Merchantable		Volumes-MBM (As of January 1948)					
	Allocated		J.P.	W.W.P.	W.F.	R.F.	TOTAL	
	Acres							
T. 1 S., R. 27 E.	2,200		14,702	-	-	-	14,702	
T. 1 S., R. 28 E.	4,120		25,312	-	-	-	25,312	
T. 2 S., R. 27 E.	9,920		86,090	33	882	1,648	88,653	
T. 2 S., R. 28 E.	4,240		34,430	-	467	1,248	36,145	
T. 3 S., R. 26 E.	420		63	139	-	9,698	9,900	
T. 3 S., R. 27 E.	9,340		23,365	1,528	3,341	43,606	71,840	
T. 3 S., R. 28 E.	5,720		35,058	-	250	-	35,308	
Total	35,960		219,020	1,700	4,940	56,200	281,860	

MAY

APPENDIX

GROWTH AND YIELD

A study of increment borings of 269 trees was made on eleven one acre plots in 1945 on the old Hess cutover. This included eight plots of Jeffrey pine type with an average site index at age 300 years of 101 and three plots of Jeffrey pine-fir type with an average index of 115. The eleven plots averaged at the time of cutting 17 M feet b.m. per acre total net stand, 15.1 M feet b.m. per acre cut and 1.9 M feet b.m. leave. The period of growth averaged 20 years since cutting.

Results of this study indicate the following:

Average gross growth per acre per year, J.P. type - - - - -	76.0	bd. ft.
Average losses per acre per year, J.P. type - - - - -	.3	bd. ft.
Average net growth per acre per year, J.P. type - - - - -	75.7	bd. ft.
Average gross growth per acre per year pine-fir type - - - - -	206.2	bd. ft.
Average losses per acre per year, pine-fir type - - - - -	35.7	bd. ft.
Average net growth per acre per year pine-fir type - - - - -	170.5	bd. ft.

On the basis that the sample area was approximately average for the Working Circle as a whole and on the basis that the average leave on the Working Circle as a whole will exceed the 1.9 M feet b.m. per acre on the sampled plots, and on the assumption that a greater leave per acre will-increase the average growth and average loss per acre, then the above growth data can be applied to the merchantable sawtimber producing lands with some conservation. Average annual growth for a twenty-year period following simultaneous cutting of the area would then approximate the following:

APPENDIX IV - AVERAGE ANNUAL GROWTH - AREA "A"

Item	: Gross	: *	: Net	: Acreage	Total	: Total	Total
	: Growth	: Losses	: Growth		: Gross	: Losses	: Net
	: Per A.	: Per A.	: Per A.		: Growth		: Growth
Government	:	:	:	:	:	:	:
J.P. type	:	76 ft	15 ft	61 ft	34,840	2,648 M:	523 M:
	:	:	:	:	:	:	:
Government	:	:	:	:	:	:	:
J.P.-fir &	:	206 ft	41 ft	165 ft	8,500	1,751 M:	348 M:
fir types	:	:	:	:	:	:	:
	:	:	:	:	:	:	:
Government	:	:	:	:	:	:	:
Total or	:	:	:	:	:	:	:
Average	:	101 ft	20 ft	81 ft	43,340	4,399 M:	871 M:
	:	:	:	:	:	:	:
Private	:	:	:	:	:	:	:
J.P. type	:	76 ft	15 ft	61 ft	9,660	734 M:	145 M:
	:	:	:	:	:	:	:
Total or	:	:	:	:	:	:	:
Avg. Gov't	:	:	:	:	:	:	:
plus Pvt.	:	97 ft	19 ft	78 ft	53,000	5,133 M:	1,016 M:
							4,117 M

* Losses have been increased to 20% of gross growth.

FOREST SERVICE, SAN FRANCISCO 11, CALIFORNIA

C

O

P

Y

SUPERVISOR, INYO

June 17, 1955

REGIONAL FORESTER

~~U-SUPERVISION-Policy-Roadside Zones~~

~~S-PLANS-Inyo-(Timber Management-Owens River Working Circle)~~

Reference the review of Highway 395 roadside zone by members of this office.

This is your approval to cut and remove the following classes of trees from the roadside zone on that portion of Inter-State Highway 395 between Mammoth Junction and June Lake Junction, as defined on pages 20(c) and (d) and 21, NF-G-3:

1. Dead or dying trees. This to be interpreted as a concentration of insects which will ordinarily kill the tree within two seasons. A seriously diseased tree (rust) is defined as one in which a considerable portion of the tree is dead.

2. Mechanically injured trees which lean toward the highway and would reach the highway if they should break off or fall.

The trees will be felled away from the highway insofar as possible. There will be 100% cleanup and all logs and tops will be hauled off the roadside zone, which will vary from 200 feet on either side to a distance necessary to preserve an attractive roadside zone. All stumps will be cut to a height of not more than 8 inches.

CLARE HENDEE

10/23/51

Date

TIMBER MANAGEMENT ACCESS ROAD REPORT

Owens River Working Circle

Region 5 State California Forest Inyo

1. Forest Development Road System Existing
Satisfactory: Unsat: Ultimate System
a. Timber access roads 45.4 Miles: - Miles: 151.3 Miles
b. General-purpose roads serving timber. 125.4 Miles: 2.3 Miles: 127.7 Miles

2. Timber Production

a. Sustained yield cutting capacity - next 10-year period 12 MMBF Annually
b. Current rate of cutting, N. F. timber 12 MMBF Annually
c. Current rate of cutting, other timber None MMBF Annually
d. Effect upon current rate of cutting N.F. timber if public access road construction funds are completely discontinued. None MMBF Annually

3. Access Road Construction and Reconstruction Requirements

a. To maintain current rate of N.F. cutting

	Average Annual Requirements	
	Miles	\$
F. S. Construction	<u>None</u>	<u>9,000</u>
Other Public Construction	<u>None</u>	<u>-</u>
F.S. Operator Construction	<u>8.6</u>	<u>26,000</u>
Other Private Construction	<u>None</u>	<u>-</u>

b. To increase rate of N.F. cutting to sustained yield capacity

	Total Requirements	
	Miles	\$
F. S. Construction	<u>None</u>	<u>-</u>
Other Public Construction	<u>None</u>	<u>-</u>
F. S. Operator Construction	<u>None</u>	<u>-</u>
Other Private Construction	<u>None</u>	<u>-</u>

c. To maintain increased rate of N.F. cutting at sustained yield level

	Average Annual Requirements	
	Miles	\$
F. S. Construction	<u>None</u>	<u>5,000 (2)</u>
Other Public Construction	<u>None</u>	<u>-</u>
F. S. Operator Construction	<u>5.4</u>	<u>22,000 (1)</u>
Other Private Construction	<u>None</u>	<u>-</u>

4. Five-year action plan. F.S. construction-None.

(1) 20 year cutting cycle started January 1948.

(2) For provision of steel culvert.

F.S.
RECEIVED
JAN 16 1956
Referred to
Exhibit #1
Timber Management

RECORD OF CUT - SAWTIMBER
(Separate sheet for each unit.)

Forest Inyo
Working Circle Owens River
Compartment

TM. RO. February 1, 1952

January 16, 1956

Exhibit #1

RECORD OF CUT - SAWTIMBER
(Separate sheet for each unit.)

Forest INYO
Working Circle Owens River
Compartment Mono-Owens

RO-122-R5
(2/1/52)

* Record on Exhibit #3 (Cordwood)

Exhibit #1

RECORD OF CUT - SAWTIMBER
(Separate sheet for each unit.)

Forest _____
Working Circle _____
Compartment _____

TM, RO, February 1, 1952

Exhibit #2

CUMULATIVE RECORD OF CUT - SAWTIMBER

Forest Working Circle

Total Annual Allowable Cut: 12 mm.

TM, RO, February 1, 1952

Exhibit #3

Forest _____
Working Circle _____
Compartment _____

RECORD OF UNREGULATED TIMBER AND FOREST PRODUCTS CUT

TM, RO, February 1, 1952



